Installation & Operation

Water Filter / Bypass System

Part #WCFB34 with 115 VAC Control
Part #WCFB34C with 24 VAC Contactor

Description:

The Water Filter/Bypass System with Contactor provides for safe water supply shut-off with 24 volt remote control switching, conveniently located inside the dental office. (A 24 volt Master Control Panel is required.) Units equipped with the filter element not only provide convenient water shut-off to the operatories, but also filter the water by removing particulated matter as small as 5 micron, thus preventing costly damage to dental equipment. Quick open/close ball valves allow for solenoid valve bypass when filter/servicing is required.

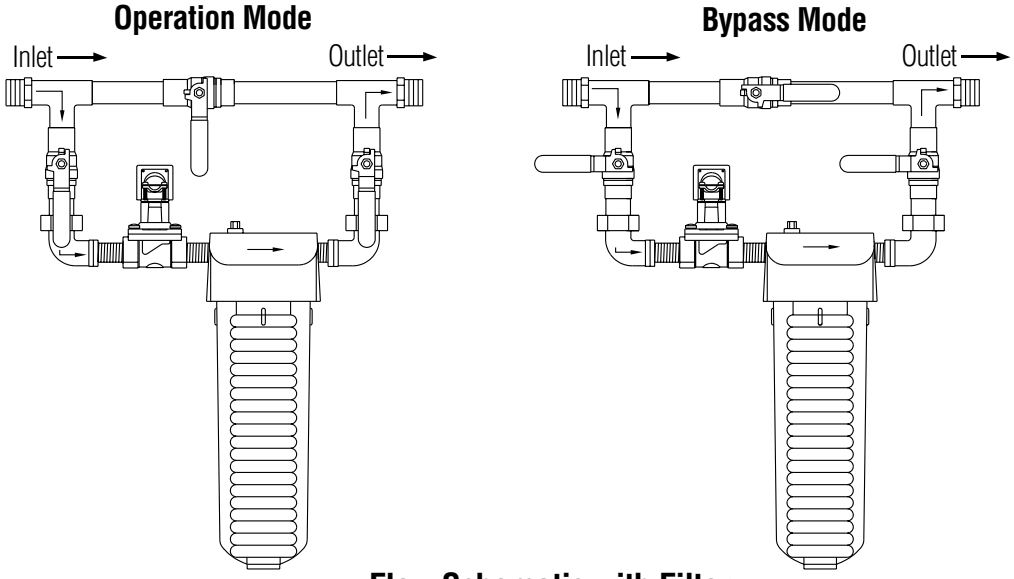
Installation:

Note: A certified plumber should be employed to install the Filter Bypass System according to local codes. Plumber is to supply all connecting fittings.

Installation Warnings:

- **PROTECT FROM FREEZING**.
- **DO NOT INSTALL ON HOT WATER LINES**
- **Do Not** install on line pressures above 125 Psi.
- **Do Not** install in direct sunlight.
- **Do Not** use torch near plastic housing**.**

1. Locate a convenient water and electrical supply line run for Filter/Bypass installation.
2. Close-off main water supply line for installation.
3. Install Filter/Bypass assembly in water line such that the direction of the water flow through the solenoid is properly maintained. Union connectors should be used.



Flow Schematic with Filter

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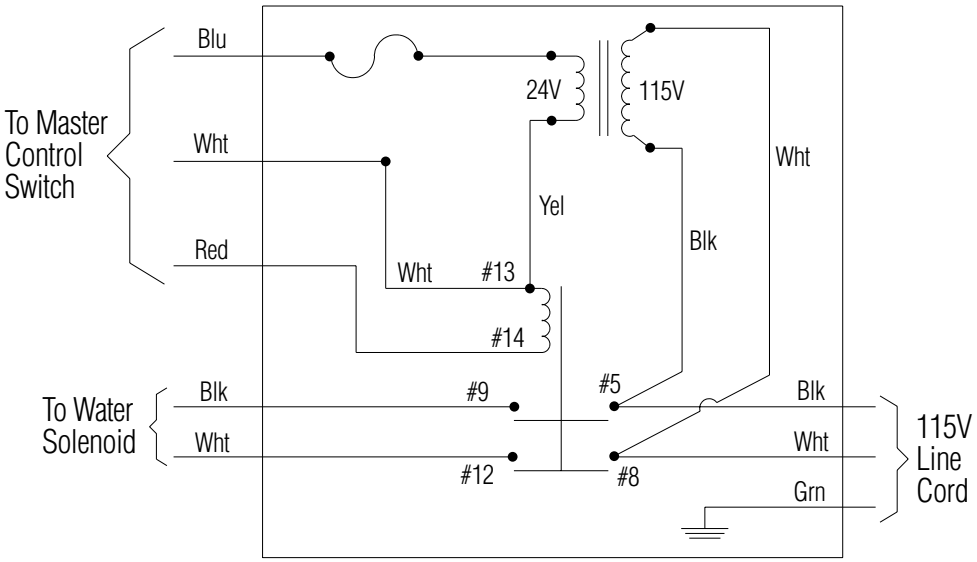
Installation (Continued):

4. For 115 VAC control, install 115 volt AC voltage wiring with in-line Remote Control Switch to electric solenoid wire lead. For 24 VAC Remote switching, connect red, white, and blue low voltage wires to corresponding wires from ADP Remote Control Panel water switch. (See attached wiring schematic.)
5. Securely tighten both end union connections, open main water supply valve, and repair leaks if necessary.
6. Plug relay control box line cord into 115 volt outlet.
7. Set ball valves for operation mode. For solenoid control; open side inlet and outlet valves, close top bypass valve. For bypass of solenoid/filter assembly; close side inlet/outlet valves and open top bypass valve. (See attached flow schematics.)



Wiring Schematic

Maintenance:

The only required maintenance of the Water Filter/Bypass System is the **replacement of the filter element at six month intervals** (although the frequency of filter replacement may vary depending on the water quality in your area).

To replace the filter element simply put the system into the bypass mode and using the filter wrench, provided, unscrew the bottom of the filter (bowl) to access the element. Replace the element and **be careful to replace the seal O-Ring upon reassembly.** Return the system to the operation mode and be sure that the filter bowl seals to avoid any leaks.

REPLACEMENT PARTS LIST

Description	WCFB34	WCFB34C
Solenoid Valve Assembly	PVV10475	PVV10475
Starter Contactor Box		ECB80550
Starter Contacor Fuse Holder		EMS10935
Starter Contactor Relay		ETR10459
Starter Contactor Transformer		ETR10500
Water Filter Housing	PFM70335	PFM70335
Water Filter Element	PFM85240	PFM85241
Water Filter O-Ring	MRP70950	MRP70951